

1889.

DUMB WAITERS
AND
HAND ELEVATORS.

"THE NEW YORK SAFETY,"

"THE MANHATTAN,"

"THE HUMPHREY."

MANUFACTURED BY

The Edward Storm Spring Company,
(Limited.)

Poughkeepsie, N. Y.,
U. S. A.

New York Safety Dumb Waiter.



PAT. APRIL 19TH 1887

PATENTED IN CANADA MAY 18TH 1887
PATENTED IN GREAT BRITAIN JUNE 17TH 1887
MADE ONLY BY

THE EDWARD STORM SPRING CO., Limited,
FOUGHKEEPSIE, N. Y.

THE
SIMPLEST,
MOST
DURABLE,
AND
ECONOMICAL
WAITER
EVER
MADE.
LIFTS
EASILY
FIFTY TO
SEVENTY-FIVE
POUNDS.

The New York Safety Dumb Waiter.

Is first-class in all its appointments, and appeals to the intelligence of Architects, Builders and owners of Private Dwellings, Hotels and Apartment Houses. It has only to be seen to be appreciated, and pronounced the most simple and complete of any of its class. We name a few of its very desirable features, as follows:

Fixtures for any size Waiter, **ALL ONE SIZE**. It is provided with **SAFETY ROPE**, avoiding accident or breakage in case the hoisting rope breaks from long use. This is a feature so very desirable and also **NEW** that we call especial attention to it.

It is so simple to set up, that any ordinary mechanic, by the aid of our diagrams and instructions, which accompany each set, need never fail to complete it properly. They are packed one complete set in a case.

Further and important, they run closer to the ceiling and nearer to the floor than any waiter in market.

Each set is provided with a grip, in order that the car when loaded (beyond balance) may be held at any desired point.

It **MOVES WITH PERFECT EASE**, and any child of ten years can operate it. It is absolutely noiseless, and has no parts that are liable to breakage.

The **ROPES ARE ALWAYS TIGHT**, the manner in which the counterpoise weight is attached allowing for either stretch or shrinkage.

A full size Diagram accompanies each set of fixtures, showing the position of wheels on top shelf of well hole as usually placed. Special cases are illustrated on page 3 of this catalogue.



FIG. 1 shows the Waiter adjusted in position, with ropes and counterpoise weight in place.

It is desirable that the wheels E E should be placed on top of the car in such a position that the weight of the car shall be lifted from the center in all cases, to accomplish this, these wheels may be placed diagonally on the car at equal distances from the corners.

The COUNTERPOISE WEIGHT should weigh about the same as the combined weight of the Car or Box, and the two wheels, E E.—NOT LESS.

Always use flat weights. The pulley-block should not be allowed to turn in weight box and twist the rope. The weight box should be of such dimensions as to confine the weight from turning and still move without friction.

The New York Safety Dumb Waiter.

Fig.2.

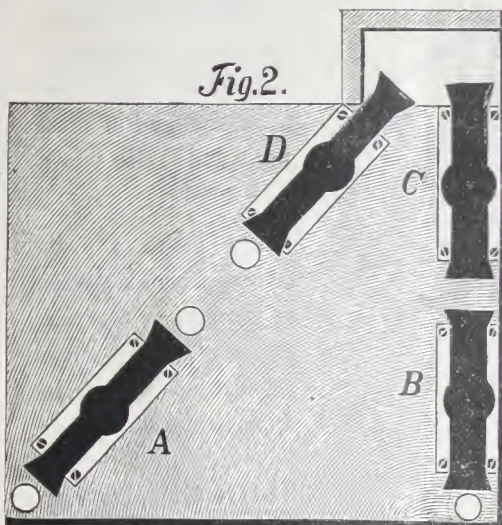
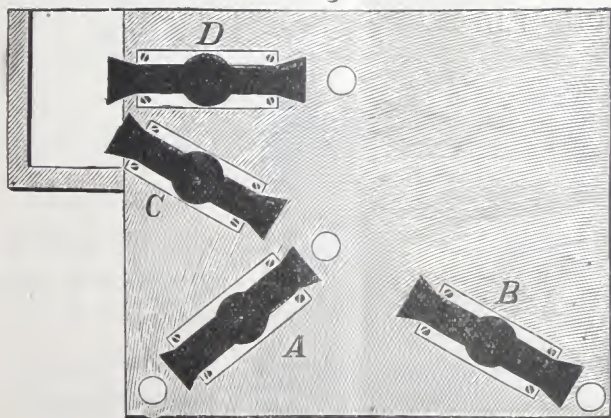


FIGURE 2 shows the adjustment of the 8 inch wheels A, B, D and C, so as to allow the counterpoise weight to come down in the right hand back corner.

FIGURE 3 shows the adjustment of these same wheels so as to allow the counterpoise weight to come down on the left hand side. By changing the position of the wheels B, D and C, so as to run towards the weight box, the counterpoise weight can be made to come in any desired place.

Fig.3.



The New York Safety Dumb Waiter.

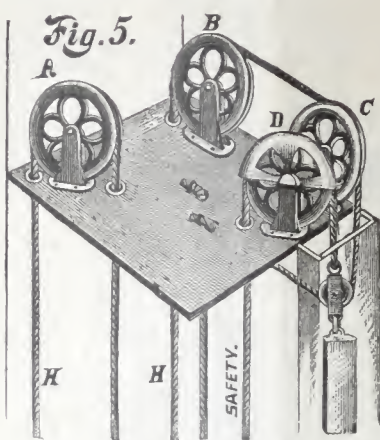


FIGURE 5, shows the perspective view of the wheels A, B, D, and C, as arranged in most cases, and as also shown in figure 1.

The brake grip attachment should always be placed on under side of the shelf on which the fixtures set. See page 10, figure 6.

In order to have a smooth, easy working Dumb Waiter overcome all friction in every place possible.

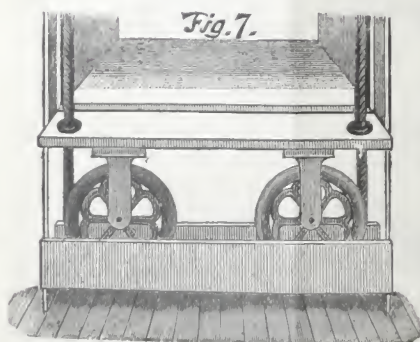


FIGURE 7, shows the guide wheels at bottom of waiter and the manner in which they should be boxed in to prevent the rope from running off.

The New York Safety Dumb Waiter.

For stringing these waiters use 1-2 inch pliable cotton rope, and for safety rope 3-8 inch pliable cotton rope.

The fixtures of the NEW YORK SAFETY DUMB WAITERS are made in the best manner possible, and of the best material. They are packed one set in a case, ALL BRONZED, and ready to set up.

WE PACK SAMPLES WITH EACH SET OF THE TWO SIZES OF THE MOST DESIRABLE ROPE TO USE. ALWAYS TAKE THE KINK OUT OF THE ROPE BEFORE YOU STRING THE WAITER. THE GUIDE RUNS SHOULD BE 7-8 INCH WIDE BY 1 1-4 INCHES DEEP, AND ARE BETTER IF COATED WITH BLACK LEAD. WE CAN FURNISH THE ROPE AND WEIGHTS IF DESIRED.

The set as packed in a case complete, consists of the following pieces: Six 8 inch wheels, two 4 inch wheels one pulley for weight and safety rope, five 1 1-4 inch thimbles, one 3-4 inch thimble, one ring for safety rope, one brake grip, one ring for brake cord, one hooded pulley for grip, one patent plate.

The New York Safety Dumb Waiter

Fixtures have been on the market about two years, and are in very general use throughout the United States and Canada, and giving perfect and universal satisfaction. The large demand we have had for a fixture working equally as well as the NEW YORK SAFETY, but of heavier capacity, and at proportionately as low prices, have led us to bring out the MANHATTAN and HUMPHREY, which are fully described on the following pages. There being one size only of fixtures for the NEW YORK SAFETY DUMB WAITER, there is only one price, viz: \$15.00 per set, F. O. B. cars here.

CORRESPONDENCE SOLICITED, AND ANY DESIRED INFORMATION FURNISHED WITH PLEASURE.

THE EDWARD STORM SPRING CO., Limited,
POUGHKEEPSIE, N. Y.

What a Few Prominent Persons Say of

THE NEW YORK SAFETY DUMB WAITER FIXTURES:

1511 Spruce St., PHILADELPHIA, Pa., November 30th, 1887.

THE EDWARD STORM SPRING CO., Limited, Poughkeepsie, N. Y.;

GENTLEMEN:—Your Safety Dumb Waiter that I substituted some time ago for an old one gives great satisfaction. We feel now that our dishes can make the trip between floors in safety, which we never could do before, as the old waiter appears to have been constructed in the interest of the china and glass dealers, and, I am sorry to say, was only too successful in furnishing them business. A good dumb waiter for family use is much needed, and yours is the best that I have seen. If my recommendation is of any value to you, use it.

Yours respectfully,

JOSEPH S. PATTERSON.

WASHINGTON, D. C., December, 1887.

GENTLEMEN:—I have sold a number of your New York Safety Dumb Waiter fixtures this season, and they have given universal satisfaction. They are now in use in some of the finest houses in this city.

Yours respectfully

JAMES B. LAMBIE.

BALTIMORE, Md., January, 1888.

GENTLEMEN:—Our sales of the N. Y. S. Dumb Waiter fixtures have been marked with general satisfaction, and they have received the approval of our best builders. The ease and safety of operating are sufficient to recommend it, to say nothing of its cheapness, strength, and short time necessary to apply it. We give it our full endorsement.

Very respectfully,

F. H. DAVIDSON & CO.

PRESIDENT'S OFFICE, MASTER BUILDERS' ASS'N, BALTIMORE, Md., January, 1888.

GENTLEMEN:—The New York Safety Dumb Waiter, purchased through your agents, Messrs. F. H. Davidson & Co., gives entire satisfaction. I endorse it for its safety, simplicity and durability. I consider it superior to any other waiter I have ever used.

Yours very respectfully,

WM. FERGUSON, Pres't.

LOUISVILLE, Ky., December, 1887.

GENTLEMEN:—I have been engaged in building and erecting Dumb Waiters for ten years past, and have used all kinds and styles of Dumb Waiters, and can truly say that there is but one kind that I would now use or recommend, and that is the New York Safety Dumb Waiter.

Yours respectfully,

SAMUEL F. HARLAN.

NEW HAVEN, Conn., December, 1887.

GENTLEMEN:—With an experience of over forty years in selling builders' hardware, we have never sold a Dumb Waiter fixture that has given the satisfaction of the New York Safety, and recommend them to anyone wishing an article that is safe and complete in every respect.

Yours truly,

JOHN E. BASSETT & CO.

ROCHESTER, N. Y. December, 1887.

GENTLEMEN:—Previous to taking hold of your New York Safety Dumb Waiter fixtures we knew of nothing of the kind which, at a reasonable price, would answer their purpose. We have sold a number of sets and they give excellent satisfaction.

Yours truly,

HAMILTON & MATHEWS.

MILWAUKEE, Wis., December, 1887.

GENTLEMEN:—We find that your New York Safety Dumb Waiter fixtures give good satisfaction, and we recommend them wherever a Dumb Waiter is needed.

Respectfully,

PHILIP GROSS.

TACOMA, W. T., October 23d, 1888.

GENTLEMEN:—We have handled your justly celebrated New York Safety Dumb Waiter fixtures for some time, and in all cases they have given entire satisfaction, being easy to raise and entirely safe.

Yours truly,

TACOMA HARDWARE CO.

SEATTLE, W. T., October 25th, 1888.

GENTLEMEN:—We have sold several of your New York Safety Dumb Waiters, and the purchasers in every case are entirely satisfied with them. The same also may be said of your Humphrey Pony Hand Elevator.

Yours truly,

GORDON HARDWARE CO.

SAN FRANCISCO, Cal., October 23, 1888.

GENTLEMEN:—I have inquired of parties to whom I have sold your New York Safety Dumb Waiters, and they all pronounce them a great success. One gentleman said if he could not get another he would not take \$100 for his.

Yours truly,

FRANK P. LATSON.

ALBANY, N. Y., November 1st, 1888.

GENTLEMEN :—I have been specifying the New York Safety Dumb Waiter for some time past, and find it gives general satisfaction to all my clients. I can recommend it as an article safe and complete in every way.

Yours respectfully,

ERNEST HOFFMAN, Architect.

SAN FRANCISCO, Cal., October 26th, 1888.

GENTLEMEN :—We have sold a number of your New York Safety Dumb Waiter fixtures, and can say that all we have sold have given unqualified satisfaction. We have conversed with a number of parties to whom we have sold them, and they say that it is surprising that anyone will purchase any other kind. We expect soon to place another good sized order with you.

Yours very truly,

BAKER & HAMILTON.

SAN FRANCISCO, Cal., October 23d, 1888.

GENTLEMEN :—We have the pleasure to report in regard to your New York Safety Dumb Waiters, that we have sold the fixtures for over a year past, and that they have in every case given the utmost satisfaction. We do not think we can give you a much stronger recommendation than to say that we have never yet received a complaint in regard to them.

Very truly yours,

DUNHAM, CARRIGAN & HAYDEN CO.

OMAHA, Neb., January, 1888.

GENTLEMEN :—I have sold your New York Safety Dumb Waiter fixtures with best of satisfaction. They fill a long-felt want, and I expect a large trade in them this year.

Yours truly,

E. T. DUKE.

WASHINGTON, D. C., December, 1887.

DEAR SIR :—The New York Safety Dumb Waiter fixture placed by me in the new house erected by the Mexican Minister in this city is working well. He is very much pleased with it, and I shall continue to use them wherever a first-class Waiter is required.

Yours respt.,

JOHN McGREGOR, Contractor.

POUGHKEEPSIE, N. Y., January, 1888.

DEAR SIR :—Your N. Y. S. Dumb Waiter has been in constant use in my house since last May, and has proved to be perfect in every respect. I cannot imagine an improvement, and cannot see how anyone could be disappointed in the use of this Waiter.

Very truly yours,

C. B. HERRICK, City Att'y.

MEMPHIS, Tenn., January, 1888.

GENTLEMEN :—Your two Safety Dumb Waiters that I substituted some time ago for an old one give perfect satisfaction. They have saved me more in one month in breakage of china and glassware than their entire cost.

Yours Respt.,

HENRY LUEHRMAN, Prop. Terrace Garden.

BROOKLYN, December, 1887.

DEAR SIR :—The three N. Y. S. Dumb Waiters put in the Union St. apartments have proved themselves superior to any I have used heretofore in other buildings. They work noiselessly and easily.

Yours Truly,

A. P. VAN TUYL, JR.

ST. PAUL, Minn., December, 1888.

GENTLEMEN :—We have sold quite a number of the New York Safety Dumb Waiter fixtures, and they have been placed in some of the best houses in this city, and it affords us great pleasure to say that in every case they are giving entire satisfaction, and we are satisfied that they are the best Dumb Waiter fixtures for family use now on the market.

Very truly yours,

ST. PAUL HDWRE CO.

FAIRPORT, N. Y., December, 1887.

GENTLEMEN :—I am thoroughly pleased with your N. Y. Safety Dumb Waiter. Its movement is easy, quick, and smooth enough to carry a full glass of water without parting with a drop in its journey up or down. My family consider it their best domestic friend, and I am glad to say this to you, not only because it is your due, but also due to any who may want a first-class Dumb Waiter at moderate expense.

Respt'y yours,

P. F. DOUGHERTY.

MONTREAL, Canada, January, 1888.

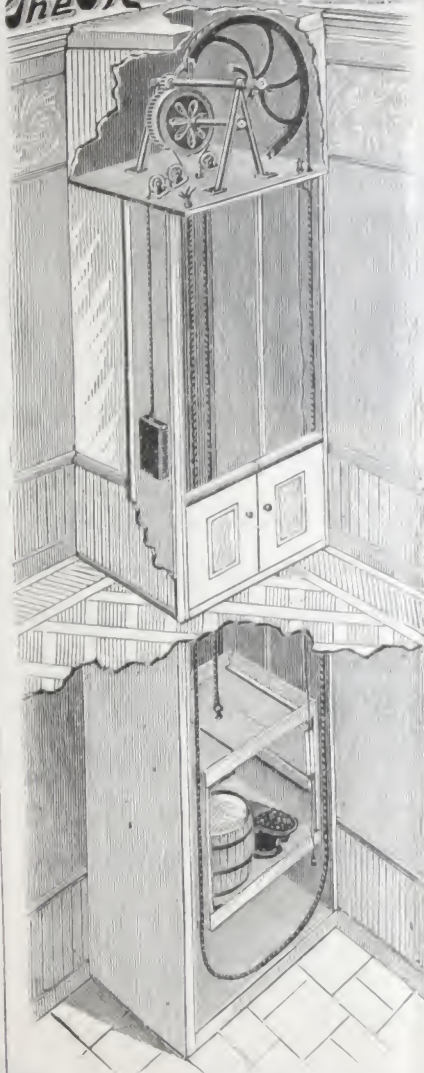
GENTLEMEN :—The Dumb Waiter fixtures which we bought from you are giving entire satisfaction. One is in use in the Queen's Restaurant here, where it is in constant use. We have been putting up Dumb Waiters for the past twenty-two years, and have felt the need of a better and safer machine than any heretofore in use. Yours is decidedly the best we have used, and we have great pleasure in speaking a good word for it.

Yours truly,

D. RUTHERFORD & CO.

The Manhattan Dumb Waiter.

The Manhattan



This fixture has a capacity of 200 lbs. and is especially intended for use in places where the New York Safety is not heavy enough, such as in Tenement and Apartment houses where heavy substances are to be lifted, and where the buildings are many stories high, also for light work in factories such as Boots and Shoes, Hats, Paper Boxes, Straw Goods, Etc., in fact any place where packages and bundles not exceeding 200 lbs. in weight are to be carried from floor to floor. The shafts on these fixtures run on Babbitt Metal Bearings; they are frictionless and noiseless, are handsomely bronzed, are perfectly made and warranted in all particulars. We make the hoist wheels in three sizes, 20 in., 22 in. and 24 in. The counterpoise weight can run on either side or at back. Use 5-8 rope for stringing. Price \$25 per set.

We also make this as a double faced fixture, with hoist wheels on both ends of the shaft, so that it can be operated from either side on any floor. Price \$29 per set. These fixtures are adjusted to a 1 1/4 inch shelf ready to place over well hole.

PATENT APPLIED FOR.

Figure 6.

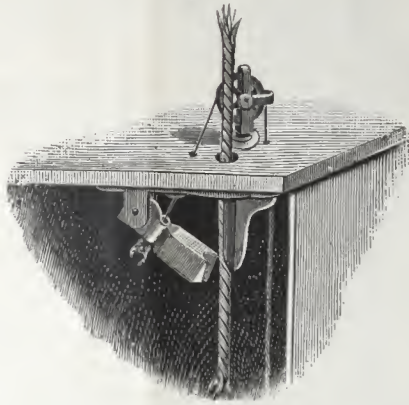




FIGURE 6, shows the brake grip for both "The Manhattan," and "The New York Safety" Dumb Waiter fixtures as placed on under side of shelf to which the fixtures are attached, also the small hooded pulley which is placed on top of shelf, and over which the brake cord runs. Place the brake grip in such position that the hand rope which elevates the car will run through it. To apply the grip pull on the small cord running down the well. To release it pull down on hand rope and the grip will drop off. Attach the small ring to end of cord on first floor. USE 1-4 INCH CORD FOR BRAKE.



The Humphrey PONY HAND ELEVATOR.

PATENTED DECEMBER 4TH, 1888.

CAPACITY 500 POUNDS.

For light Store and Factory work, Hospitals and Public Buildings. For Trunk and Invalid lifts. For carrying Coal, Flour, Ashes and other heavy substances in Tenements, Flats and Private Dwellings.

So simple in construction, and price so low that it can be used in many places instead of a dumb waiter, and has many times the lifting capacity.

These fixtures are handsomely bronzed, the shafts run in babbited bearings, they are perfectly fitted, and can be guaranteed in all respects.

Price of Fixtures, \$36 Per Set.

MANUFACTURED ONLY BY

The Edward Storm Spring Company,
(Limited.)

Poughkeepsie, N. Y.

The Humphrey Pony Hand Elevator.

Figure 1.

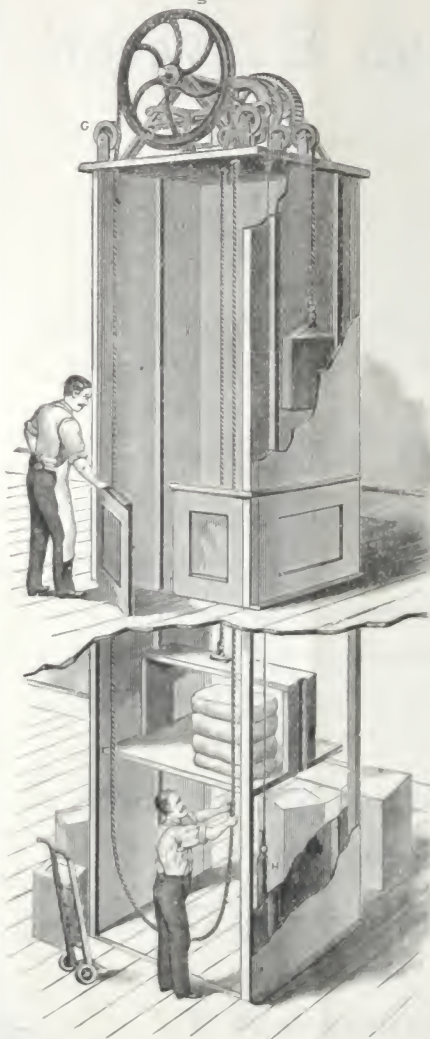


Figure 1 shows the fixtures adjusted on top shelf of well hole, also the opening on ground floor. The weight can be adjusted to run down on either the right or left hand side, as desired, and the fixtures are supplied either way as required, where so stated in the order. When not specified we always send them for the weight to run on right hand side as you face the front. The small guide wheels G, G, can be moved to draw in or spread out the hoist rope to fit the opening of the well hole. The weight H, is attached to the bottom of the brake rope, and raising or pulling on this rope relieves or applies the brakes. For hoist rope use 3-4 manilla rope, for lifting rope use either 5-8 manilla or 1-2 inch wire tiller rope. The latter is preferable. We will supply these ropes for any length well hole, at reasonable prices, if desired.

The Humphrey Pony Hand Elevator.

Figure 2.

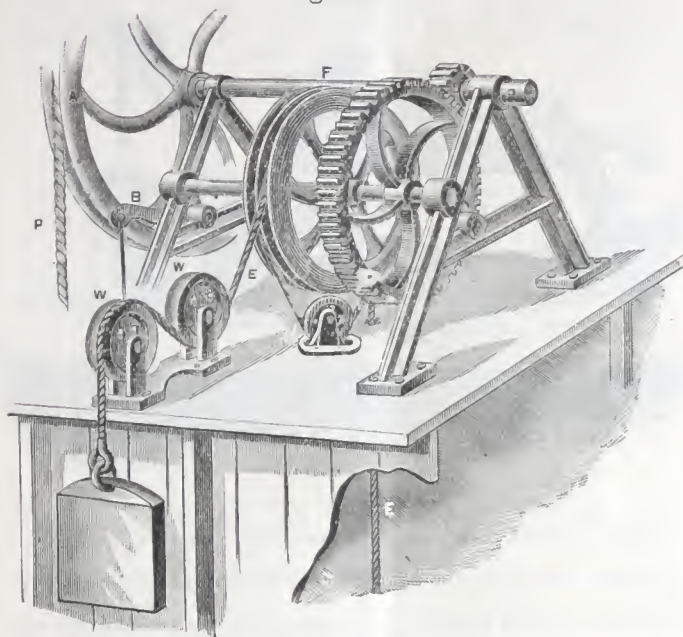


Figure 2 gives side view of fixtures adjusted on top shelf ; A, is the hoist wheel ; P, the hoist rope ; B, the brake lever ; F, shows the double-grooved drum wheel, around which the lift rope E, is wound, passing from one groove to the other by running under a small wheel as shown in cut, which is bolted to shelf, then under and over friction wheels W, W, which are placed in any desirable position, leading to weight box. The counterpoise weight should be about 25 per cent heavier than car when empty. We make the hoist wheels in three sizes, 24 in., 30 in. and 36 in, but prefer to furnish the 36 in. where there is room to use it.

The Humphrey Pony Hand Elevator.

Figure 3.

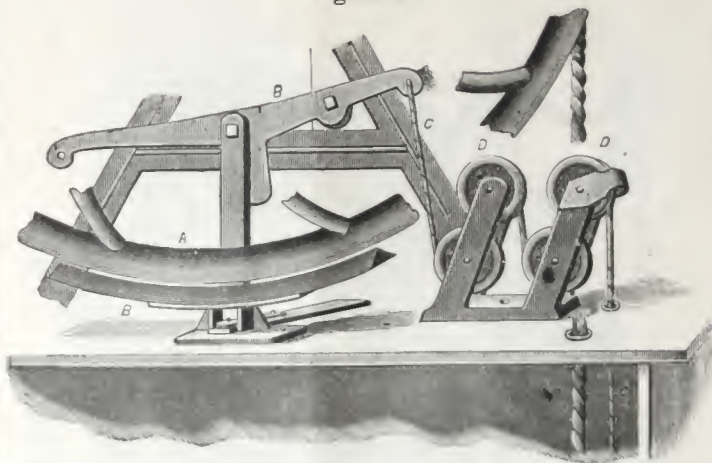


Figure 3 shows more plainly the brake attachment; B, shows the lever and hard-wood shoe attached, and the manner in which it is bolted to frame of fixtures; C, C, shows the brake cord passing up through shelf and over the friction wheels D, D, and fastened to brake lever. For brake cord use 3-8 cotton rope. We will furnish these fixtures fastened to a 1 1-2 inch shelf, to exactly fit top of well hole, at an extra cost of from \$2.50 to \$4.00 net, according to size. In ordering state size of the well hole, inside measurement. These fixtures can be used in any well hole, from thirty inches to four feet wide.

The Humphrey Pony Hand Elevator.

750 LBS. CAPACITY.

In addition to the machine described on the four preceding pages we make the Humphrey Elevator of 750 lbs. capacity. This machine is heavier in all respects, and has a 42 inch hoist wheel. It will lift 750 lbs. as easily as the regular machine does 500 lbs.

Price of Fixtures \$55 Per Set.

WHAT SOME OF THE PEOPLE USING THEM SAY OF OUR

Humphrey Pony Hand Elevator.

CRANFORD, N. J., September 13, 1888.

EDWARD STORM SPRING CO.

GENTLEMEN:—The Humphrey Pony Elevator which I purchased from you, I put in a store in this town. It does the work with entire satisfaction to all parties, and much easier and quicker than expected. The brake works splendidly. It was easily put up and we had no trouble in getting it to work. It is the best and cheapest elevator I ever saw.

Yours respectfully,

W. W. MENDELL, Builder.

NORFOLK, CT., August 25, 1888.

EDWARD STORM SPRING CO.

GENTS:—I took out an elevator last June at the Hillhurst (which was recommended by an eminent architect) because it failed to do the work required.

I put in one of your Pony Elevators costing less than one-fourth as much as the one taken out, and it works to a charm. We can find no fault with it. It carries four or five trunks to the third story, opening and closing the Automatic Hatch Doors with care and safety.

Yours very truly,

JAMES T. LEVI, Architect and Builder.

DANVERS, MASS., August 30, 1888.

THE EDWARD STORM SPRING CO., Poughkeepsie, N. Y.

GENTLEMEN:—I got one of your Pony Elevators of Messrs. John H. Graham & Co., some two months ago to put in a furniture store. The elevator cage weighs 175 pounds, which I was afraid might be too heavy for it but it works perfectly and they are entirely satisfied with it. It was put up by a carpenter that had had no experience with that kind of work. He had no trouble at all. Merely followed the directions and it worked all right from the first.

Respectfully yours,

HENRY NEWHALL.

BETHANY, PA., August 23, 1888.

THE EDWARD STORM SPRING CO., Poughkeepsie, N. Y.

DEAR SIR:—The Pony Elevator works to a charm and I am much obliged to you for advising me to purchase it. I think this will not be the only one put up in Honesdale, although it is the first. I cannot write too enthusiastically in its praise. Thanking you for sending me a really good thing, and very cheap too,

I am truly yours,

E. O. HAMLIN,

ALBION, PA., July 7th, 1888.

EDWARD STORM SPRING CO., Poughkeepsie, N. Y.

GENTLEMEN:—I have got The Humphrey Pony Elevator in, and write to say that I am more than satisfied with it. It does my work easy and much quicker than I expected, and the brake works to a charm. It was easily put in and we had no trouble whatever in getting it to work on the first trial. I am greatly obliged to you for sending me so good an elevator for the money.

Yours respectfully,

E. A. COLLINS.

FAIRMINGDALE, N. Y., August 30, 1888.

DEAR SIR:—I have two of your elevators in and they work very nice and safe.

Yours truly,

N. KETCHAM.

ATLANTA, GA., August 28, 1888.

THE EDWARD STORM SPRING CO., Poughkeepsie, N. Y.

DEAR SIR:—Your Pony Elevator is a sure success and fills a long needed want.

Yours truly,

BECK & GREGG HARDWARE CO.

WASHINGTON, D. C., August 27, 1888.

THE EDWARD STORM SPRING CO.

GENTLEMEN:—The Humphrey Pony Hand Elevator recently ordered of your firm has been put up in one of my buildings in this city and is in complete working order. It is superior to any that I have used and is very satisfactory.

Yours truly,

W. M. POINDEXTER.

WILLIAMS COLLEGE, WILLIAMSTOWN, MASS., September 11, 1888.

THE EDWARD STORM SPRING CO.

DEAR SIR:—I have had your Pony Hand Elevator in use for some months, and I find it satisfactory. It does its work well and gives no trouble. It will fulfill all reasonable expectation.

Yours truly,

C. M. DODD.

ROME, N. Y., August 31, 1888.

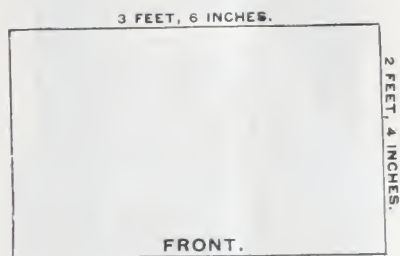
THE EDWARD STORM SPRING CO.

GENTS:—The Pony Elevator we bought of you was placed in our new city hospital and is giving good satisfaction. We regard it equal if not better than any machine in the market.

Yours, etc.,

WARDWELL BROS. & CO.

Customers ordering the MANHATTAN DUMBWAITER or the HUMPHREY PONY HAND ELEVATOR, will please send us inside dimensions of well or opening in Floor, and state which is the front side, thus:



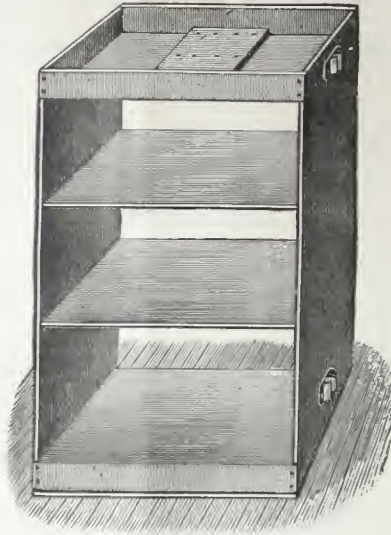
We send these fixtures adjusted on a platform ready to set over well hole, and attach car and ropes to.

We will make estimates on the entire job ready to put in, including a CAR, LIFT ROPE AND MANILLA HOIST ROPE, GUIDE RUNS, AND WEIGHT BALANCE.

For description of cars see pages 18, 19 and 20.

Where estimates on the complete lift are wanted, state entire length of well from ceiling, or rafters, on top floor to the bottom of lower floor. **THEY CAN BE SET UP BY ANY MECHANIC.**

No. 1.

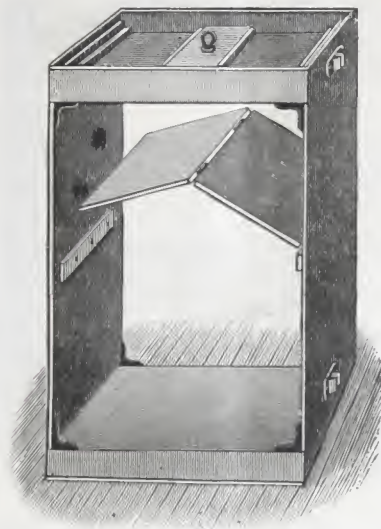


CAR No. 1.—For use with the NEW YORK SAFETY FIXTURES, is built of whitewood, with two stationary shelves.

Made any size from 16 inches square to 3 feet square, usual height 30 inches.

PRICES UPON APPLICATION.

No. 2.

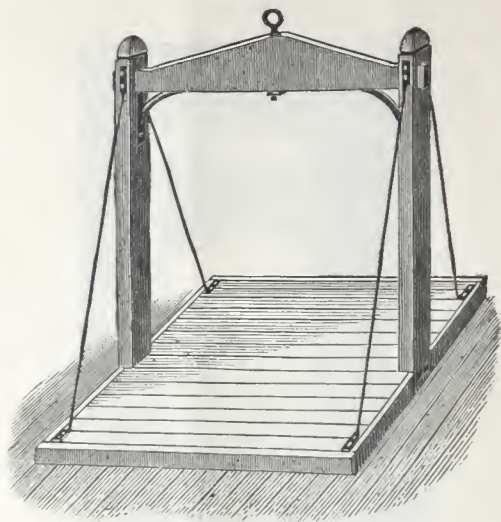


CAR No. 2.—For use with the MANHATTAN DUMB WAITER FIXTURES. Is built of Ash with one shelf hinged to fold back so as to admit of carrying a barrel of flour, etc. We build this car without a back when intended for use with double faced fixtures.

Made any size from 20 inches square to 3 feet 6 inches square, usual height 36 inches.

PRICES UPON APPLICATION.

No. 3.



CAR No. 3.—For use with the HUMPHREY PONY HAND ELEVATOR, is built very strong from hard wood, and thoroughly braced.

Made any size from 2 feet square to 4 feet 6 inches square, and any height from 3 feet to 6 feet in the clear.

PRICES UPON APPLICATION.

M. E. O'CONNOR, WHOLESALE BUILDERS' HARDWARE,

83 Chambers Street, New York.

Representing NIMICK & BRITTAN MFG. CO., Pittsburgh, Penn.

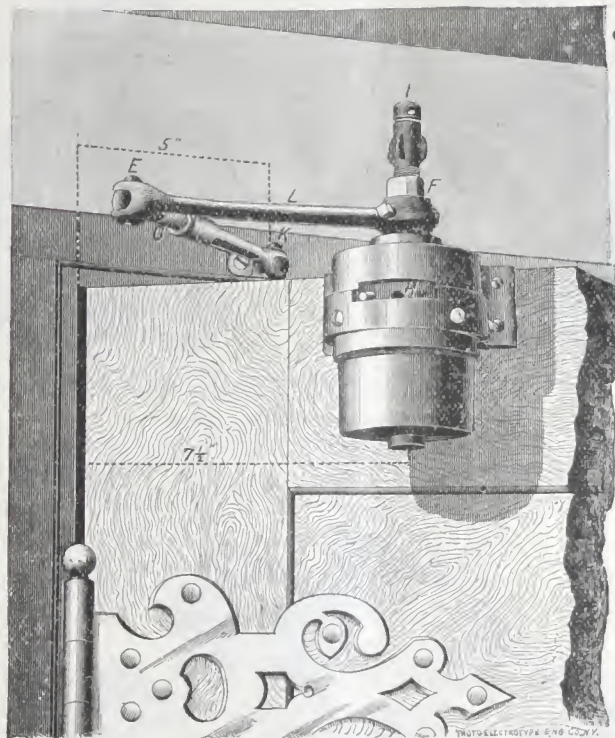
Manufacturers of Fine Builders' Hardware,

Also the HOUSE PATENT AUTOMATIC LIQUID DOOR CHECK AND SPRING.

SUPERIOR TO ALL OTHERS!

CAN BE APPLIED TO ANY DOOR!

This Check has absolute control over the Spring, while door is closing; working oil, instead of air, to regulate the speed. The speed is automatically changed by the temperature, closing quickly in cold weather.
IT HAS NEVER FAILED TO GIVE SATISFACTION.



IN POSITION ON DOOR.

PRICE LIST.
No. 1.—Japanned, Nickel Mountings, \$6.00 Each.
" 2.—Full Nickel Mountings, 7.50 " "
" 3.—Japanned, Bronze Mountings, 6.50 " "
" 4.—Full Bronze Mountings, 7.50 " "
Suitable for any door 4 feet width by 3 inches in thickness. For larger doors a stronger Spring can be furnished.

Nails, Building Paper, Sash Weights, Sash Cords, Fine Bronze Hardware.

PATENTEE AND MANUFACTURER OF THE

O'CONNOR PEW and SEAT GUARD,

For Reserving Pews Without Doors, Theater and Parlor Car Chairs.

And the **CHAMPION PIPE AND NUT WRENCH.**

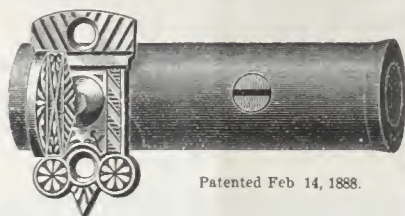
Estimates furnished from the Plans and Specifications for any Building.

Goods Delivered free on board Boats or Cars in New York City. No Charge for Cases.

SEND FOR CIRCULARS.

IVES' PATENT DOOR BOLTS AND SASH LOCKS.

Ives' Patent Bolts are suitable for out and inside doors, and are

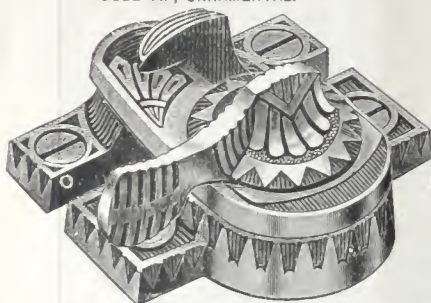


Patented Feb 14, 1888.



a greater protection than ordinary locks and bolts afford.

OGEE TIP, ORNAMENTAL.



BELL TIP, ORNAMENTAL.

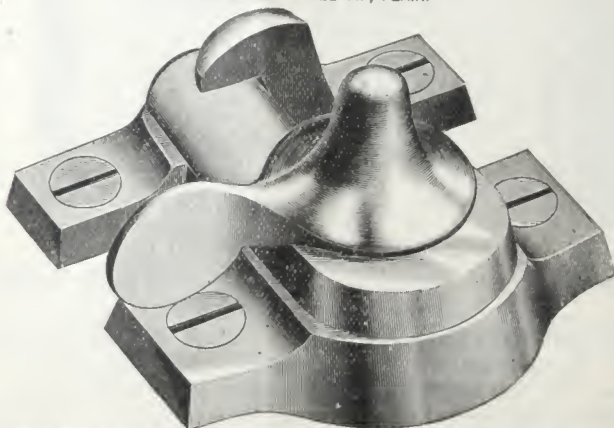


Patented April 17, 1883; October 16, 1883; December 30, 1884; March 21, 1885; May 12, 1885; June 25, 1885; Patented in Canada, March 21, 1886.

MANY REASONS WHY.

IVES' PATENT SASH LOCKS are specified more by architects than any other make. It is a new principle in locks; it is a most natural contrivance for a sash fastener ever invented; it has been on the market for over four years and given universal satisfaction; it costs no more than the more common kinds, and can be found on sale by all dealers in hardware.

LARGE SIZE—BELL TIP, PLAIN.



Architects can have a Sample, Real Bronze Sash Lock Paper Weight and Price-List, showing the numbers and descriptive finish of over forty styles of goods, mailed free, by addressing the manufacturers.

HOBERT B. IVES & CO., Sole Manufacturers and Patentees, **NEW HAVEN, CONN., U. S. A.**

— 1889. —

PRICE LIST

— OF —

Ives' Patent Door Bolts and Sash Locks.

MORTISE DOOR BOLTS.

No.		Per Doz.
8	Ornamental Knob and Escutcheon, Iron Bronzed	\$3.60
10	Ornamental Knob and Escutcheon, Nickel Plated	3.45
12	Ornamental Knob and Escutcheon, Bronze Metal, No. 1 Finish	3.45
14	Ornamental Knob and Escutcheon, Bronze Metal, No. 3 Finish	3.45
15	Plain Knob and Escutcheon, Bronze Metal, High Polish, No. 1 Finish	4.00
16	Plain Knob and Escutcheon, Bronze Metal, No. 2 Finish	4.00
17	Plain Knob and Escutcheon, Nickel Plated	4.20

PATENT SASH LOCKS.

OGEE TIP, ORNAMENTAL

No.		Per Doz.
404	Ornamental Iron, Bronzed	\$1.25
405	Ornamental Iron, Copper, Bronzed	1.75
408	Ornamental Iron, Bronzed, with Nickel Plated Knob	2.00
416	Ornamental Iron, Bronzed, with Bronze Metal Knob, No. 1 Finish	2.00
417	Ornamental Iron, Bronzed, with Bronze Metal Knob, No. 3 Finish	2.00
418	Ornamental Iron, Polished, Bronze Plated, No. 3 Finish	4.00
419	Ornamental Iron, Polished, Bronze Plated, No. 1 Finish	4.00
424	Ornamental Real Bronze Metal, Polished, No. 1 Finish	7.00
430	Ornamental Real Bronze Metal, Polished, No. 3 Finish	7.00

BELL TIP, ORNAMENTAL

No.		Per Doz.
504	Ornamental Iron, Bronzed	\$1.40
508	Ornamental Iron, Bronzed, with Nickel Plated Knob	3.50
516	Ornamental Iron, Bronzed, with Bronze Metal Knob, No. 1 Finish	3.50
517	Ornamental Iron, Bronzed, with Bronze Metal Knob, No. 3 Finish	3.50
518	Ornamental Iron, Polished, Bronze Plated, No. 3 Finish	4.50
519	Ornamental Iron, Polished, Bronze Plated, No. 1 Finish	4.50
524	Ornamental Real Bronze Metal, Polished, No. 1 Finish	7.50
530	Ornamental Real Bronze Metal, Polished, No. 3 Finish	7.50

BELL TIP, PLAIN

No.		Per Doz.
431	Plain Iron, Bronzed	\$1.40
432	Plain Iron, Copper, Bronzed	1.75
433	Plain Iron, Bronzed, with Bronze Metal Knob, No. 1 Finish	3.50
433½	Plain Iron, Polished, Bronze Plated, No. 1 Finish	5.00
434	Plain Real Bronze Metal, Polished, No. 1 Finish	7.50
435	Plain Real Bronze Metal, Polished, No. 1 Finish	7.50
438	Plain Real Bronze Metal, Polished, No. 2 Finish	7.50
442	Plain Real Bronze Metal, Nickel Plated	9.00

LARGE SIZE—BELL TIP, PLAIN

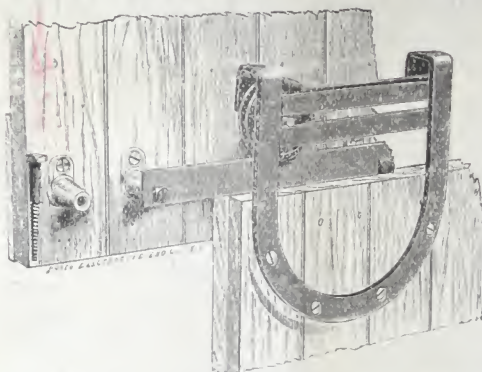
No.		Per Doz.
631	Plain Iron, Bronzed	\$3.00
633	Plain Iron, Bronzed, with Bronze Metal Knob, No. 1 Finish	5.50
634	Plain Real Bronze Metal, Polished, No. 1 Finish	17.00
638	Plain Real Bronze Metal, Polished, No. 2 Finish	17.00

Packed, one dozen in box, one gross in case, with screws to match.

“STANDARD”

Lane's Patent Door Hanger and Track.

STEEL AND ANTI-FRICTION.



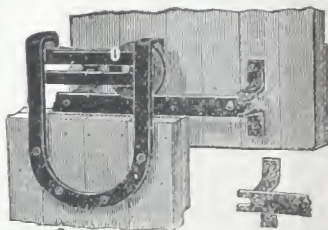
Points of Excellence.

BEING OF STEEL—NO
BREAKAGE—AXLE NOT
RUNNING IN A BOX—NO
WEARING OUT IN A
LIFETIME—NO OIL RE-
QUIRED— OPERATES
WONDERFULLY EASY—
NEVER SCREECHES—AL-
WAYS IN ORDER.

Price, No. 1,	for Doors to Slide	5 ft.,	\$15	per Dozen Pair.
“ 1½	“	“ 10 ft.,	18	“ “
“ 2	“	“ 10 ft.,	22	“ “
“ 3	“	“ 15 ft.,	30	“ “
“ 4	“	“ 15 heavy,	\$36	“ “

OTHER LARGER SIZES TO ORDER.

Price of Standard Steel Track, per lineal foot, brackets included, 9 cents.



“O. N. T.” TRACK.

This Track is self-contained, and made of open hearth steel, brackets included.

The ends are made with tongue and groove to match, if two or more pieces are to be joined, and the construction is such, that under a heavy load the greatest strain

on the bracket is a pulling one lengthwise the metal, insuring great solidity, and avoiding a tendency to spring or twist under hard usage.

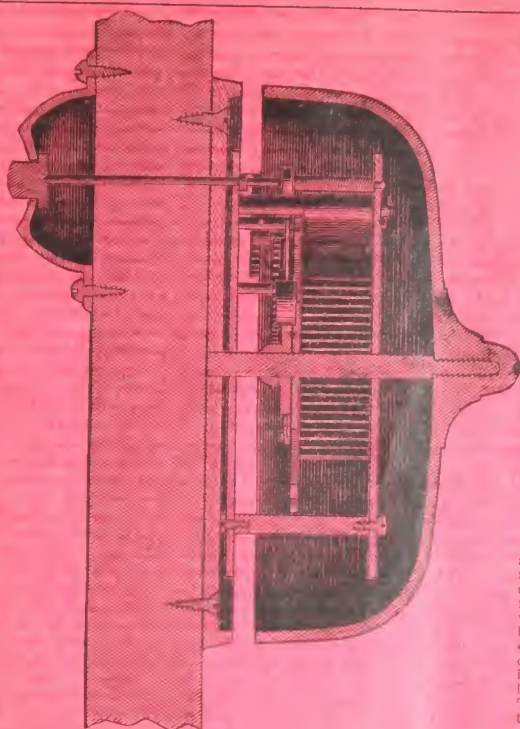
The Track is easily erected, and requires no roofing or protection.

PRICE, PER FOOT, 7 1-2 CENTS.

LANE BROTHERS, EXCLUSIVE MANUFACTURERS.

GENERAL AGENCY,

JOHN H. GRAHAM & CO., 113 CHAMBERS STREET, NEW YORK.



PATENT APPLIED FOR.

NEW DEPARTURE BELL CO.

BRISTOL, CONN.

Manufacturers of

DOOR, CALL,

—AND—

Alarm Bells.

Our Door Bell to all outward appearances is an electric bell, and in operation, the difference cannot be detected. We dispense with the sloppy battery and constant attention that it requires, obtaining *exactly* the same results by mechanical means, requiring no attention whatever. Yes? We wind our bell, but for once winding, the 4 inch gives *four hundred calls* of ordinary duration, and the 5 inch *six hundred*, or enough to last the average house one year. The winding is done by simply turning the gong, thus doing away with the unsightly key.

PRICE: 4 INCH, \$2.75; 5 INCH, \$3.50 EACH.

FOR SALE BY THE TRADE GENERALLY.

After March 1st, 1889, we will furnish attachments for operating through vestibule or in back part of house, requiring also, but a slight pressure of the button, the action being as sure and reliable as with the short connection above described. This result has heretofore been considered impossible, and will well repay investigation by architects and others interested.

We will take pleasure in furnishing illustrated circulars and full explanation of these connections after the above mentioned date, when they will be ready for the trade.

JOHN H. GRAHAM & CO.,
General Agents,

113 CHAMBERS STREET,

NEW YORK CITY.

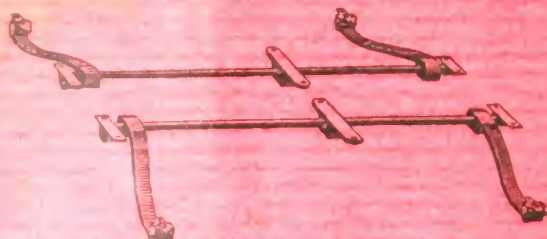
The EDWARD STORM SPRING CO.

LIMITED,

POUGHKEEPSIE, N. Y.,

MANUFACTURERS OF

The Edward Storm Side-Bar Springs.



OVER ONE HUNDRED THOUSAND SETS NOW IN USE AND RUNNING
FROM MAINE TO CALIFORNIA.

ALSO

Cannon's Diamond Point Nail Set.



THE MOST POPULAR AND BEST APPRECIATED
MECHANICS' TOOL EVER MADE.